

Learning to Fly: The Wright Brother's Adventure			
2000 Science			
Model Academic Standards			
Wisconsin Science			
Grades 5-8			
Activity/Lesson	State	Standards	
The Society	WI	SCI.5-8.A.8.1	Develop their understanding of the science themes by using the themes to frame questions about science-related issues and problems
The Society	WI	SCI.5-8.C.8.1	Identify questions they can investigate using resources and equipment they have available
The Society	WI	SCI.5-8.C.8.2	Identify data and locate sources of information including their own records to answer the questions being investigated
The Society	WI	SCI.5-8.C.8.5	Use accepted scientific knowledge, models, and theories to explain their results and to raise further questions about their investigations
The Society	WI	SCI.5-8.C.8.7	Explain their data and conclusions in ways that allow an audience to understand the questions they selected for investigation and the answers they have developed
The Society	WI	SCI.5-8.C.8.11	Raise further questions which still need to be answered
Wright Brothers: 1900 Glider	WI	SCI.5-8.C.8.3	Design and safely conduct investigations that provide reliable quantitative or qualitative data, as appropriate, to answer their questions
Wright Brothers: 1901 Glider	WI	SCI.5-8.C.8.3	Design and safely conduct investigations that provide reliable quantitative or qualitative data, as appropriate, to answer their questions
1901: The First Improvement	WI	SCI.5-8.A.8.5	Show how models and explanations, based on systems, were changed as new evidence accumulated (the effects of constancy, evolution, change, and measurement should all be part of these explanations)
1901: The First Improvement	WI	SCI.5-8.A.8.6	Use models and explanations to predict actions and events in the natural world
1901: The First Improvement	WI	SCI.5-8.A.8.7	Design real or thought investigations to test the usefulness and limitations of a model
1901: The First Improvement	WI	SCI.5-8.B.8.3	Explain how the general rules of science apply to the development and use of evidence in science investigations, model-making, and applications
1901: The First Improvement	WI	SCI.5-8.C.8.5	Use accepted scientific knowledge, models, and theories to explain their results and to raise further questions about their investigations

1901: The First Improvement	WI	SCI.5-8.D.8.6	While conducting investigations, explain the motion of objects using concepts of speed, velocity, acceleration, friction, momentum, and changes over time, among others, and apply these concepts and explanations to real-life situations outside the classroom
1902: Success at Last	WI	SCI.5-8.A.8.3	Defend explanations and models by collecting and organizing evidence that supports them and critique explanations and models by collecting and organizing evidence that conflicts with them
1902: Success at Last	WI	SCI.5-8.A.8.5	Show how models and explanations, based on systems, were changed as new evidence accumulated (the effects of constancy, evolution, change, and measurement should all be part of these explanations)
1902: Success at Last	WI	SCI.5-8.A.8.6	Use models and explanations to predict actions and events in the natural world
1902: Success at Last	WI	SCI.5-8.A.8.7	Design real or thought investigations to test the usefulness and limitations of a model
1902: Success at Last	WI	SCI.5-8.B.8.2	Identify and describe major changes that have occurred over in conceptual models and explanations in the earth and space, life and environmental, and physical sciences and identify the people, cultures, and conditions that led to these developments
1902: Success at Last	WI	SCI.5-8.B.8.3	Explain how the general rules of science apply to the development and use of evidence in science investigations, model-making, and applications
1902: Success at Last	WI	SCI.5-8.C.8.5	Use accepted scientific knowledge, models, and theories to explain their results and to raise further questions about their investigations
Learning to Fly: The Wright Brother's Adventure			
2000 Science			
Model Academic Standards			
Wisconsin Science			
Grades 9-12			
Activity/Lesson	State	Standards	
The Society	WI	SCI.9-12.B.12.1	Show how cultures and individuals have contributed to the development of major ideas in the earth and space, life and environmental, and physical sciences

The Society	WI	SCI.9-12.C.12.2	Identify issues from an area of science study, write questions that could be investigated, review previous research on these questions, and design and conduct responsible and safe investigations to help answer the questions
1901: The First Improvement	WI	SCI.9-12.A.12.4	Construct arguments that show how conflicting models and explanations of events can start with similar evidence
1901: The First Improvement	WI	SCI.9-12.A.12.6	Identify and, using evidence learned or discovered, replace inaccurate personal models and explanations of science-related events
1901: The First Improvement	WI	SCI.9-12.B.12.4	Show how basic research and applied research contribute to new discoveries, inventions, and applications
New Data	WI	SCI.9-12.C.12.7	Evaluate articles and reports in the popular press, in scientific journals, on television, and on the Internet, using criteria related to accuracy, degree of error, sampling, treatment of data, and other standards of experimental design
1902: Success at Last	WI	SCI.9-12.A.12.3	Give examples that show how partial systems, models, and explanations are used to give quick and reasonable solutions that are accurate enough for basic needs
1902: Success at Last	WI	SCI.9-12.A.12.6	Identify and, using evidence learned or discovered, replace inaccurate personal models and explanations of science-related events
1902: Success at Last	WI	SCI.9-12.C.12.2	Identify issues from an area of science study, write questions that could be investigated, review previous research on these questions, and design and conduct responsible and safe investigations to help answer the questions
1904: Improvement in Dayton	WI	SCI.9-12.C.12.6	Present the results of investigations to groups concerned with the issues, explaining the meaning and implications of the results, and answering questions in terms the audience can understand
1905: Complete a Flight at Last	WI	SCI.9-12.B.12.4	Show how basic research and applied research contribute to new discoveries, inventions, and applications